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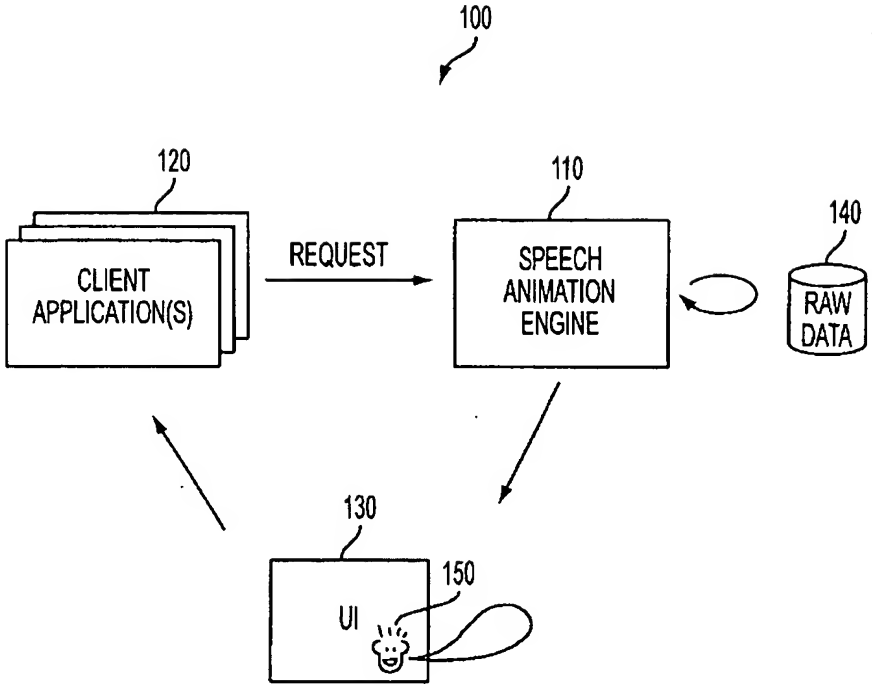

FIG. 1

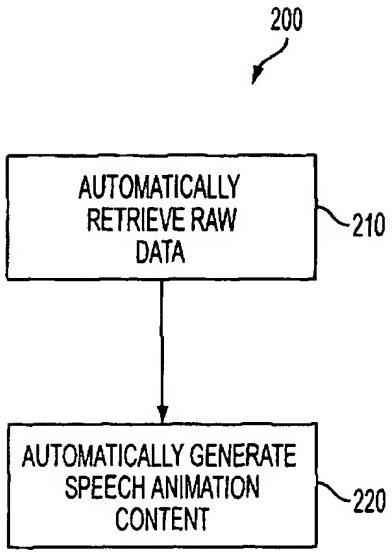
200
AUTOMATICALLY RETRIEVE RAW DATA
210
AUTOMATICALLY GENERATE SPEECH ANIMATION CONTENT
220

FIG. 2

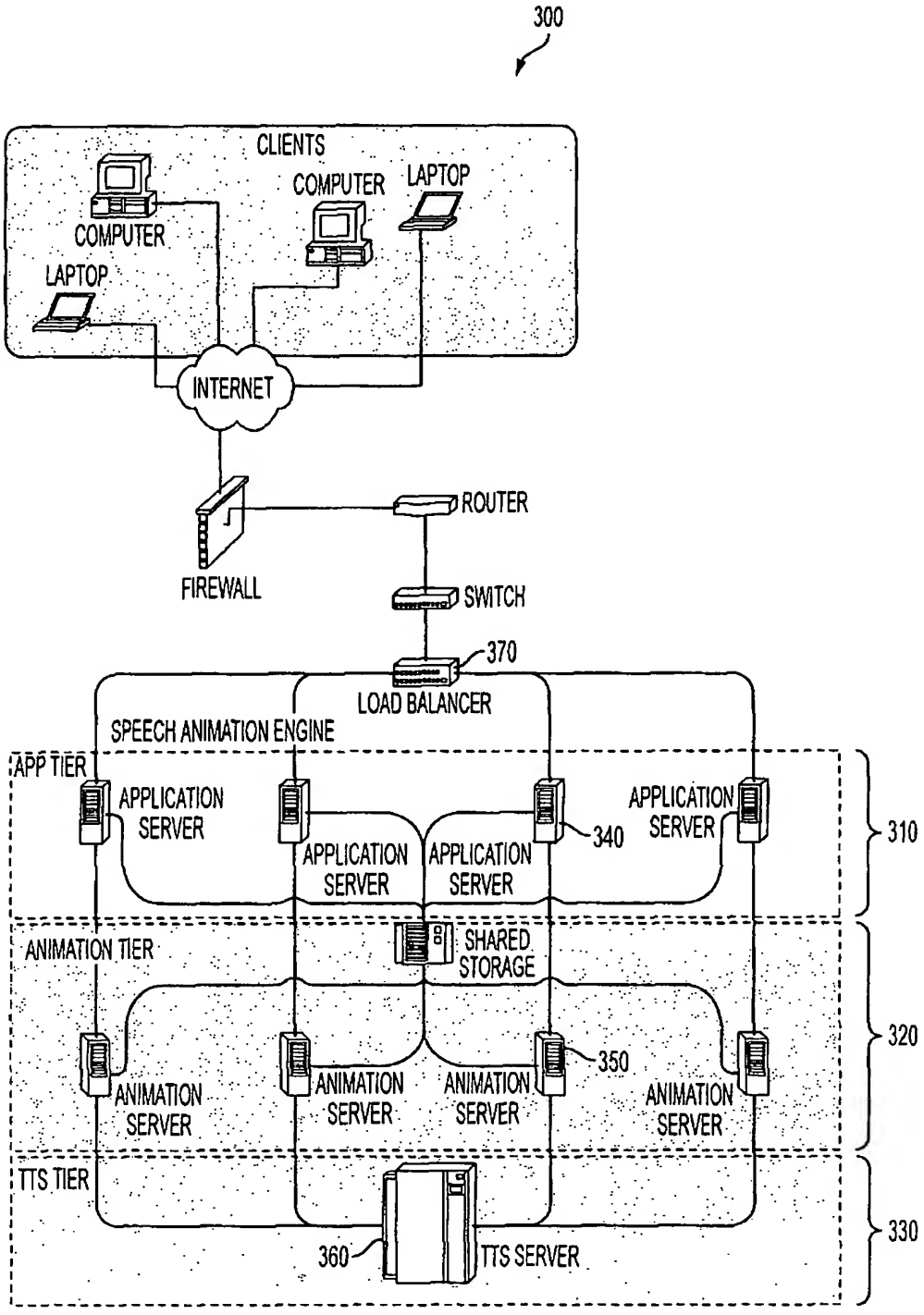
300
CLIENTS
COMPUTER
COMPUTER
LAPTOP
LAPTOP
INTERNET
ROUTER
FIREWALL
SWITCH
370
LOAD BALANCER
SPEECH ANIMATION ENGINE
APP TIER
APPLICATION SERVER
APPLICATION SERVER
APPLICATION SERVER
APPLICATION SERVER
340
310
ANIMATION TIER
SHARED STORAGE
ANIMATION SERVER
ANIMATION SERVER
ANIMATION SERVER
ANIMATION SERVER
350
320
TTS TIER
360
TTS SERVER
330

FIG. 3

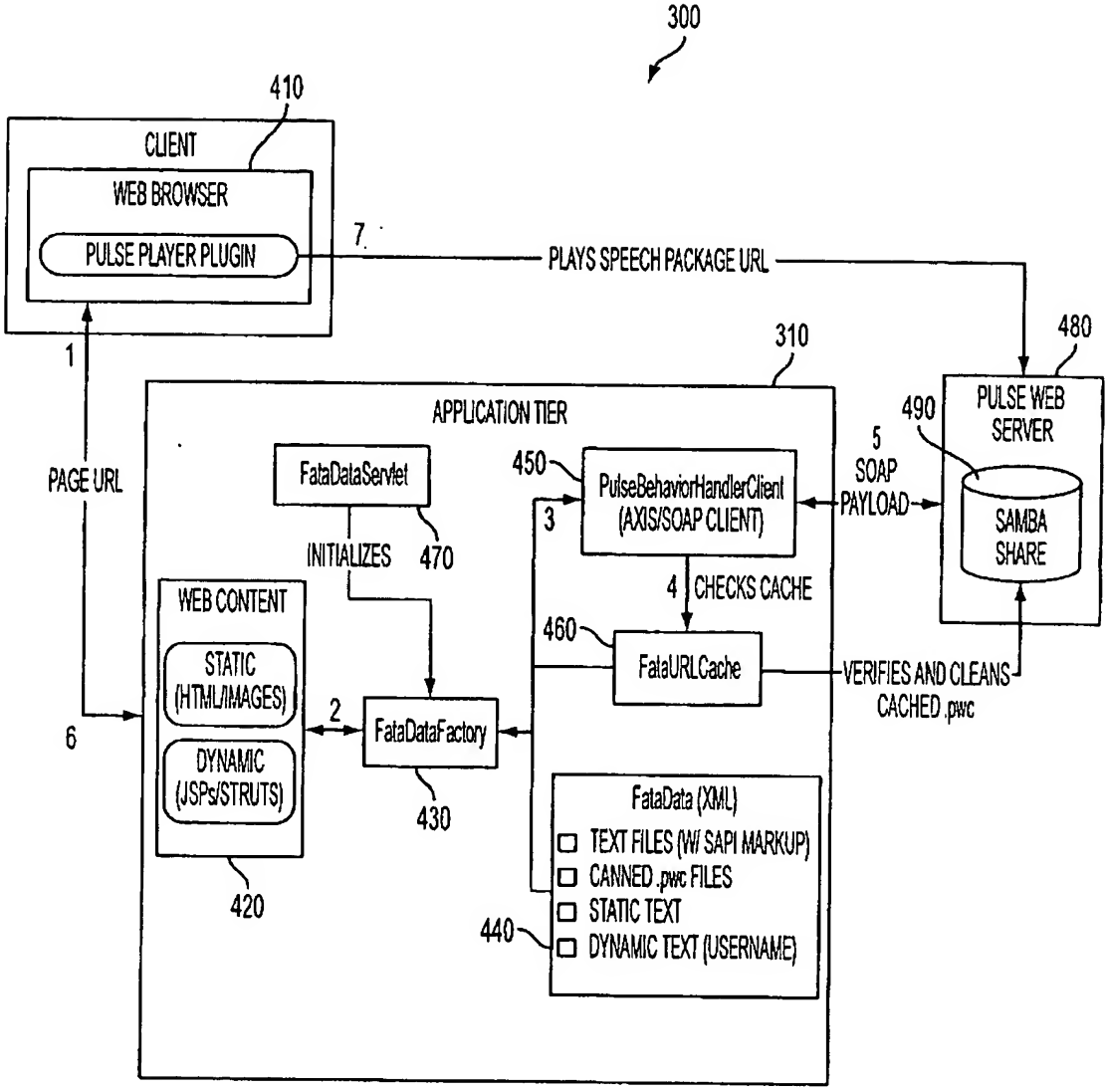
300
410
CLIENT
WEB BROWSER
PULSE PLAYER PLUGIN
7
PLAYS SPEECH PACKAGE URL
480
310
1
APPLICATION TIER
PULSE WEB SERVER
490
5
SOAP PAYLOAD
SAMBA SHARE
PAGE URL
FataDataServlet
450
PulseBehaviorHandlerClient (AXIS/SOAP CLIENT)
3
INITIALIZES
470
4 CHECKS CACHE
WEB CONTENT
460
FataURLCache
VERIFIES AND CLEANS CACHED .pwc
STATIC (HTML/IMAGES)
DYNAMIC (JSPs/STRUTS)
2
FataDataFactory
6
430
FataData (XML)
TEXT FILES (W/ SAPI MARKUP)
CANNED .pwc FILES
STATIC TEXT
DYNAMIC TEXT (USERNAME)
440
420

FIG. 4

```
<fata-data>                                                    610
    <talking-head-data name*=[alias]
        emotion=[emotion]
        expression=[expression]
        look=[look direction]
        voice*=[voice name]>                                   620
        <speech-files type*=[set|pool]>                        630
            <speech-data type*=[talking-head data|textFile|pwcFile|static|fataData]
                emotion=[emotion]
                expression=[expression]
                look=[look direction]
                voice=[voice name]
                value*=[alias|path|text|value]/>
</fata-data>
```

FIG. 6A

```
<fata-data>
    <talking-head-data name="RES-completely-random"
        emotion="happy"
        voice="Sam">
        <speech-files type="pool">                                                    640
          <speech-data type="talking-head-data" value="RES-canned-greeting"/>         650
          <speech-data type="static" value="Hello, how random this is." emotion="neutral"/>
          <speech-data type="textFile" value="/dir/someText.txt" voice="Tom"/>        660
          <speech-data type="pwcFile" value="/dir/pwc/hello.pwc" look="up"/>          670
          <speech-data type="fataData" value="Username" expression="nod"/>
        </speech-files>                                                               680
</fata-data>
```

FIG. 6B

There is nothing better than a <fataData value="ProductName"/> for a gift.

FIG. 7A

```
<speech-files type="set">
  <speech-data type="static" value="There is nothing better than a"/>
  <speech-data type="fataData" value="ProductName"/>
  <speech-data type="static" value="for a gift."/>
</speech-files>
```

FIG. 7B

There is nothing better than a Grand Doohickey for a gift.

FIG. 7C